

WESCAM 11 SST Designator



Date Revised: 24 DEC 03

VENDOR DESCRIPTION

The WESCAM 11 Step Stare Turret (SST) is an all-digital IEEE 1394 compliant tri-sensor Airborne Mine Detection payload. Basic sensors include a 640x480 InSb MW FLIR with filters designed to detect surface and subsurface land mines, electro-optical camera and laser. The WESCAM 11 COBRA variant employs a filtered electro-optical sensor for detecting mines below the surface of the water.

The Step-Stare function allows the WESCAM 11 to capture 8 full-frame digital stills per second which are geo-registered at the pixel level and can be mosaic'd for high-resolution coverage exceeding 300 km² per hour.

The 40-lb self-contained payload weight can carry an eyesafe laser rangefinder or laser rangefinder/designator as the third sensor payload.



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Business Category: Large Business

EOIRLD

Hardware		Gimbal
RF Frequency: N/A	Operating Temp.: -55°C to 55°C	Height: 1.2 ft Weight: 17.7 kg
Power: 85W Nom., 170W Max.	Storage Temp.: -55°C to 70°C	Stabilization: < 20 Mrad
Weight: 17.7 kg or 39 lbs	Interface: RS-232/422, IE 1394	Pointing Accuracy: < 20 m @ 4 km
Dimensions: 279mm x 368mm	Bandwidth Required: 10 Mps	Angular Speed: 1000°/sec
Internal Volume: 1.3 ft ³	TCDL Compatibility: Yes	Azimuth Coverage: 360°
Cooling: Ambient air	MTBF: > 650 hrs	Elevation Coverage: +90° to -120°
LOS Stabilization: < 20 Mrad	MTTR: .5 hrs	Slew Rate Azimuth: 120°/sec
Auto Video Tracker: Yes	Maintainability: 2-level BIT to LRM level	Slew Rate Elev. Coverage: 120°/sec
Operating Altitude: 0 ft to 36,000 ft MSL	Pd: 90% >4 km in MFOV	TLE: < 20 m
Operating Speed: 0 knots to 350 knots	Pr: 90% >4 km in NFOV	ATR

Electro-Optical (EO)	Infrared (IR)	Laser Designator
Type: Progressive Scan	Type: InSb	Pulse Characteristics: 1-20 pps
Resolution: 640x480	Resolution: 640x512	Pulse Energy: 75W
Range: N/A	Range: 3-5	Range: > 6 km
Angular Coverage: N/A	Angular Coverage: N/A	Angular Coverage: N/A
Zoom Rate: 14X	Cooling Method: Stirling cycle	Cooling Method: Ambient
Modes of Operation: Step-stare and Conventional	Modes of Operation: Step-stare and Conventional	Modes of Operation: Q-switch up to 20 Hz NATO Codes Band I & II
Target Size: APC	Target Size: APC	Beam Divergence: 0.25 Mrad
Field of View: Matching FLIR	WFOV: 28.7 H x 21.7 V	Wavelength: 1.064 ± 0.002um NdYag
Sensitivity: 0.4 lux	MFO: 8.9 H x 6.7 V	TLE: <20 m
Color or B/W: Color	NFO: 2.2 H x 1.7 V	